

ABSTRACT OF THE DISCLOSURE

A system is disclosed for installing an insert within an aperture in a workpiece, the workpiece having a first side and a second side. The insert is the type in which a portion of the insert plastically deforms on the second side of the workpiece upon application of a linear force provided by a tool, thereby preventing withdrawal of the insert from the aperture. The insert comprises a sleeve member and an integral flange, where the flange has a larger diameter than the aperture. The disclosed installation system performs two actions. It causes the expansion of the sleeve and it also causes the flange of the insert to be fused or welded to the first side of the workpiece. The welded connection between the insert and the workpiece prevents any rotation or spinning of the insert within the workpiece, and increases the integrity of the insert-fastener connection.

15

20

25